

AMENDMENT(S) TO THE CLAIMS

1. (currently amended): An integrated circuit, comprising:
one or more components, including a feedback component, that receive a distributed voltage, wherein the feedback component of the one or more components has substantially similar input characteristics to at least one other component of the one or more components; and

a voltage driver that produces a compensated voltage;

wherein the compensated voltage is distributed to form the distributed voltage at the one or more components, and the distributed voltage is degraded relative to the compensated voltage; and

wherein the voltage driver is responsive to feedback from the feedback component as derived from the distributed voltage to adjust the compensated voltage so that the distributed voltage is approximately equal to a nominal voltage.

2. (original): An integrated circuit as recited in claim 1, wherein said one or more components have input characteristics that contribute to the degradation of the distributed voltage.

3. (original): An integrated circuit as recited in claim 1, wherein said distribution contributes to the degradation of the distributed voltage.

1 4. (original): An integrated circuit as recited in claim 1, wherein:
2 said distribution contributes to the degradation of the distributed voltage;
3 and
4 the compensated voltage is distributed over impedance-matched conductors
5 to form the distributed voltage at the one or more components.

6
7 5. (currently amended): An integrated circuit as recited in claim 1,
8 wherein said one or more components, excepting the feedback component,
9 comprise data receivers that evaluate data signals relative to the distributed
10 voltage.

11
12 6. (currently amended): An integrated circuit as recited in claim 1,
13 ~~further comprising a~~ wherein the feedback component ~~that~~ evaluates the
14 distributed voltage relative to the nominal voltage to derive said feedback.

1 7. (currently amended): An integrated circuit as recited in claim 1,
2 wherein:

3 the substantially similar input characteristics of the said one or more
4 components ~~have input characteristics that~~ contribute to the degradation of the
5 distributed voltage ~~at the data receivers; and~~

6 ~~further comprising a~~ the feedback component ~~that~~ evaluates the distributed
7 voltage relative to the nominal voltage to derive said feedback, wherein the
8 ~~feedback receiver has~~ substantially similar input characteristics ~~similar to those of~~
9 ~~the one or more components to contribute similar degradation to the distributed~~
10 voltage at the ~~feedback~~ one or more components.

11
12 8. (currently amended): An integrated circuit as recited in claim 1,
13 wherein:

14 ~~the integrated circuit further comprises a~~ feedback component ~~that~~
15 evaluates the distributed voltage relative to the nominal voltage to derive said
16 feedback;

17 said distribution contributes to the degradation of the distributed voltage;
18 and

19 the distributed voltage is routed to result in similar degradations at the one
20 or more components ~~and the feedback component.~~

1 9. (currently amended): An integrated circuit as recited in claim 1,
2 ~~further comprising wherein:~~

3 a the feedback component ~~that~~ evaluates the distributed voltage relative to
4 the nominal voltage to derive said feedback; and

5 ~~wherein~~ the voltage driver has a variable gain that is configured to increase
6 in response to the feedback when the distributed voltage is less than the nominal
7 voltage and to decrease in response to the feedback when the distributed voltage is
8 greater than the nominal voltage.

9
10 10. (original): An integrated circuit as recited in claim 1, wherein the
11 voltage driver has a variable gain that is controlled by a digital value.

12
13 11. (original): An integrated circuit as recited in claim 1, wherein the
14 voltage driver has a variable gain that is controlled by a digital value, the
15 integrated circuit further comprising a register that is configurable to store the
16 digital value and to provide the digital value to the voltage driver.

17
18 12. (original): An integrated circuit as recited in claim 1, wherein the
19 voltage driver has a variable gain that is controlled by a digital value, the
20 integrated circuit further comprising a register that is configurable to store the
21 digital value and to provide the digital value to the voltage driver, the register
22 being readable and writable.

1 13. (original): An integrated circuit as recited in claim 1, wherein the
2 voltage driver has a variable gain that is controlled by a digital value, further
3 comprising a counter that produces the digital value, wherein the counter is
4 responsive to the feedback to increment and decrement the digital value.

5
6 14. (previously presented): An integrated circuit as recited in claim 1,
7 wherein the voltage driver has a variable gain that is controlled by a digital value,
8 further comprising a counter that produces the digital value, wherein the counter is
9 responsive to the feedback during an initialization period to increment and
10 decrement the digital value, and the digital value remains constant during an
11 operational period following the initialization period.

12
13 15. (original): An integrated circuit as recited in claim 1, wherein the
14 integrated circuit comprises a memory device.

15
16 16. (original): An integrated circuit as recited in claim 1, wherein the
17 integrated circuit is a memory device that further comprises a plurality of memory
18 storage cells.
19
20
21
22
23
24
25

1 17. (currently amended): An integrated circuit, comprising:
2 one or more data receivers that evaluate one or more corresponding data
3 signals relative to a distributed reference voltage;
4 a feedback receiver that evaluates the distributed reference voltage relative
5 to a nominal reference voltage to produce a feedback signal; and
6 a reference voltage driver that produces a compensated reference voltage;
7 wherein the compensated reference voltage is distributed to form the
8 distributed reference voltage, and the distributed reference voltage is degraded
9 relative to the compensated reference voltage;~~and~~
10 wherein the reference voltage driver has a variable gain that increases when
11 the distributed reference voltage is less than a nominal reference voltage and
12 decreases when the distributed reference voltage is greater than the nominal
13 reference voltage responsive to the feedback signal; and
14 wherein the feedback receiver and at least one data receiver of the one or
15 more data receivers have substantially similar input characteristics.
16

17 18. (original): An integrated circuit as recited in claim 17, wherein the
18 reference voltage driver is configured so that its gain is set during an initialization
19 period and remains constant during a subsequent operational period.
20

21 19. (original): An integrated circuit as recited in claim 17, wherein the
22 variable gain is controlled by a digital value.
23
24
25

1 **20.** (previously presented): An integrated circuit as recited in claim 17,
2 wherein the variable gain is controlled by a digital value, and the integrated circuit
3 further comprises a register that is configurable to store the digital value and to
4 provide the digital value to the reference voltage driver.

5
6 **21.** (previously presented): An integrated circuit as recited in claim 17,
7 wherein the variable gain is controlled by a digital value, and the integrated circuit
8 further comprises a register that is configurable to store the digital value and to
9 provide the digital value to the reference voltage driver; and wherein the register is
10 readable and writable.

11
12 **22.** (original): An integrated circuit as recited in claim 17, wherein the
13 variable gain is controlled by a digital value, further comprising a counter that
14 produces the digital value, wherein the counter increments or decrements the
15 digital value depending on the relationship of the distributed reference voltage
16 relative to the nominal reference voltage.

17
18 **23.** (previously presented): An integrated circuit as recited in claim 17,
19 wherein the variable gain is controlled by a digital value, and the integrated circuit
20 further comprises a counter that produces the digital value; wherein the counter is
21 configured to increase and decrease the digital value during an initialization period
22 depending on the relationship of the distributed reference voltage and the nominal
23 reference voltage, and the digital value remains constant during an operational
24 period following the initialization period.
25

1 24. (original): An integrated circuit as recited in claim 17, further
2 comprising a capacitive charge pump that controls the gain of the reference
3 voltage driver.

4
5 25. (currently amended): An integrated circuit as recited in claim 17,
6 ~~further comprising a feedback component that evaluates the distributed reference~~
7 ~~voltage relative to the nominal reference voltage to generate a feedback signal,~~
8 ~~wherein the reference voltage driver is responsive to the feedback signal to~~
9 ~~increase and decrease the variable gain~~ wherein the integrated circuit is a memory
10 device that further comprises a plurality of memory storage cells, each memory
11 storage cell of the plurality of memory storage cells coupled to at least one data
12 receiver of the one or more data receivers to store data received therefrom.

13
14 26. (currently amended): An integrated circuit as recited in claim 17,
15 further comprising:

16 ~~a feedback component that evaluates the distributed reference voltage~~
17 ~~relative to the nominal reference voltage to generate a feedback signal;~~

18 a charge pump that produces a control voltage to establish the variable gain
19 of the reference voltage driver;

20 wherein the charge pump is responsive to the feedback signal to increase
21 and decrease the variable gain.

1 27. (currently amended): An integrated circuit as recited in claim 17,
2 wherein the compensated reference voltage is distributed over impedance-matched
3 conductors to form the distributed reference voltage at the one or more data
4 receivers and at the feedback receiver.

5
6 28. (currently amended): An integrated circuit as recited in claim 17,
7 ~~further comprising: a feedback component that evaluates the distributed reference~~
8 ~~voltage relative to the nominal reference voltage to generate a feedback signal,~~
9 ~~wherein the reference voltage driver is responsive to the feedback signal to~~
10 ~~increase and decrease the variable gain; wherein the feedback component~~
11 incorporates a low-pass filter.

12
13 29. (currently amended): An integrated circuit as recited in claim 17,
14 wherein the one or more data receivers comprise a plurality of the data receivers,
15 and ~~wherein the data receivers have similar input characteristics and the~~
16 distributed reference voltage is routed similarly to each of the data receivers to
17 result in similar degradation of the distributed reference voltage at each of the data
18 receivers.

1 30. (currently amended): An integrated circuit as recited in claim 17,
2 ~~further comprising: a feedback receiver that evaluates the distributed reference~~
3 ~~voltage relative to the nominal reference voltage to generate a feedback signal,~~
4 ~~wherein the reference voltage driver is responsive to the feedback signal to~~
5 ~~increase and decrease the variable gain; wherein the data and feedback receivers~~
6 ~~have similar input characteristics and the distributed reference voltage is routed~~
7 ~~similarly to the data and feedback receivers to result in similar degradation of the~~
8 ~~distributed reference voltage at the data and feedback receivers.~~

9
10 31. (currently amended): An integrated circuit as recited in claim 17,
11 ~~further comprising: a feedback receiver that evaluates the distributed reference~~
12 ~~voltage relative to the nominal reference voltage to generate a feedback signal,~~
13 ~~wherein the reference voltage driver is responsive to the feedback signal to~~
14 ~~increase and decrease the variable gain; wherein the data and feedback receivers~~
15 ~~have similar input characteristics and the distributed reference voltage is routed~~
16 ~~similarly to the data and feedback receivers to result in similar degradation of the~~
17 ~~distributed reference voltage at the data and feedback receivers; and~~

18 wherein the feedback receiver incorporates a low-pass filter that does not
19 significantly affect the input characteristics of the feedback receiver.
20

21 32. (original): An integrated circuit as recited in claim 17, wherein the
22 integrated circuit is a memory device that further comprises a plurality of memory
23 storage cells.
24
25

1 33. (currently amended): An integrated circuit, comprising:
2 a plurality of data receivers that evaluate corresponding data signals relative
3 to a distributed reference voltage;
4 a feedback receiver that evaluates the distributed reference voltage relative
5 to a nominal reference voltage to produce a feedback signal;
6 a reference voltage driver that produces a compensated reference voltage;
7 wherein the compensated reference voltage is routed on the integrated
8 circuit to form the distributed reference voltage at the data and feedback receivers,
9 and the input characteristics of the data and feedback receivers cause a voltage
10 change in the distributed reference voltage at each receiver relative to the
11 compensated reference voltage;
12 wherein the data and feedback receivers have similar input characteristics
13 so that said relative voltage change in the distributed reference voltage is
14 approximately the same at each of the data and feedback receivers;
15 wherein the reference voltage driver includes an increment/decrement
16 component that produces a digital value in response to the feedback signal,
17 wherein the increment/decrement component is configured to increment and
18 decrement the digital value depending on the relationship of the distributed
19 reference voltage and the nominal reference voltage as indicated by the feedback
20 signal; and
21 wherein the reference voltage driver has a variable gain that is established
22 by the digital value.
23
24
25

1 **34.** (original): An integrated circuit as recited in claim 33, wherein the
2 compensated reference voltage is distributed over impedance-matched conductors
3 to form the distributed reference voltage at the data and feedback receivers.
4

5 **35.** (original): An integrated circuit as recited in claim 33, wherein the
6 increment/decrement component is enabled during an initialization period and the
7 digital value remains constant during a subsequent operational period.
8

9 **36.** (original): An integrated circuit as recited in claim 33, further
10 comprising a register that is configurable to store the digital value and to provide
11 the digital value to the reference voltage driver.
12

13 **37.** (previously presented): An integrated circuit as recited in claim 33,
14 further comprising a register that is configurable to store the digital value and to
15 provide the digital value to the reference voltage driver, wherein the register is
16 readable and writable.
17

18 **38.** (original): An integrated circuit as recited in claim 33, further
19 comprising a digitally controllable variable resistor that controls the gain of the
20 reference voltage driver.
21

22 **39.** (original): An integrated circuit as recited in claim 33, wherein the
23 feedback receiver comprises a low-pass filter that does not significantly affect the
24 input characteristics of the feedback receiver.
25

1 **40.** (original): An integrated circuit as recited in claim 33, wherein the
2 distributed reference voltage is routed similarly to the data and feedback receivers
3 so that said relative voltage change in the distributed reference voltage is
4 approximately the same at each of the data and feedback receivers.

5
6 **41.** (original): An integrated circuit as recited in claim 33, wherein:
7 the distributed reference voltage is routed similarly to the data and feedback
8 receivers so that said relative voltage change in the distributed reference voltage is
9 approximately the same at each of the data and feedback receivers; and
10 the feedback receiver comprises a low-pass filter that does not significantly
11 affect the input characteristics of the feedback receiver.

12
13 **42.** (original): An integrated circuit as recited in claim 33, wherein the
14 integrated circuit is a memory device that further comprises a plurality of memory
15 storage cells.
16
17
18
19
20
21
22
23
24
25

1 **43.** (Previously presented): An integrated circuit, comprising:
2 receiver means for evaluating a plurality of data signals relative to a
3 distributed reference voltage;
4 feedback means for evaluating the distributed reference voltage relative to a
5 nominal reference voltage to produce a feedback signal;
6 driver means having a variable gain for producing a compensated reference
7 voltage;
8 routing means for routing the compensated reference voltage on the
9 integrated circuit to form the distributed reference voltage at the receiver and
10 feedback means;
11 wherein the input characteristics of the receiver and feedback means cause
12 a voltage change in the distributed reference voltage at the receiver and feedback
13 means relative to the compensated reference voltage;
14 wherein the receiver and feedback means have similar input characteristics
15 so that said relative voltage change in the distributed reference voltage is
16 approximately the same at each of the receiver and feedback means; and
17 gain control means for controlling the gain of the driver means in response
18 to the feedback signal so that the distributed reference voltage is approximately
19 equal to the nominal reference voltage.

20
21 **44.** (original): An integrated circuit as recited in claim 43, wherein the
22 gain control means comprises a counter that produces a digital value, wherein the
23 counter is responsive to the feedback to increment and decrement the digital value.
24
25

1 **45.** (previously presented): An integrated circuit as recited in claim 43,
2 wherein the gain control means comprises a register that is configurable to store a
3 digital value, and wherein the variable gain of the driver means is responsive to
4 the digital value.

5
6 **46.** (previously presented): An integrated circuit as recited in claim 43,
7 wherein the gain control means comprises a register that is configurable to store a
8 digital value, the variable gain of the driver means is responsive to the digital
9 value, and the register is readable and writable.

1 47. (currently amended): An integrated circuit, comprising:
2 receiver means for evaluating a plurality of data signals relative to a
3 distributed reference voltage;
4 feedback means for evaluating the distributed reference voltage relative to a
5 nominal reference voltage to produce a feedback signal;
6 driver means having a variable gain for producing a compensated reference
7 voltage;
8 routing means for routing the compensated reference voltage on the
9 integrated circuit to form the distributed reference voltage at the receiver and
10 feedback means;
11 wherein the input characteristics of the receiver and feedback means cause
12 a voltage change in the distributed reference voltage at the receiver and feedback
13 means relative to the compensated reference voltage;
14 wherein the receiver and feedback means have similar input characteristics
15 so that said relative voltage change in the distributed reference voltage is
16 approximately the same at each of the receiver and feedback means; and
17 gain control means for controlling the gain of the driver means in response
18 to the feedback signal so that the distributed reference voltage is approximately
19 equal to the nominal reference voltage;
20 ~~An integrated circuit as recited in claim 43,~~ wherein the compensated
21 reference voltage is distributed over impedance-matched conductors to form the
22 distributed reference voltage at the receiver and feedback means.

1 **48.** (original): An integrated circuit as recited in claim 43, wherein the
2 gain control means is enabled during an initialization period to adjust the gain of
3 the driver means, wherein the gain control means is configured to maintain the
4 gain of the driver means constant during a subsequent operational period.

5
6 **49.** (original): An integrated circuit as recited in claim 43, wherein the
7 gain control means comprises a digitally controllable variable resistor.

8
9 **50.** (original): An integrated circuit as recited in claim 43, wherein the
10 distributed reference voltage is routed similarly to the receiver and feedback
11 means so that said relative voltage change in the distributed reference voltage is
12 approximately the same at each of the receiver and feedback means.

13
14 **51.** (currently amended): An integrated circuit as recited in claim 43,
15 wherein:

16 the distributed reference voltage is routed similarly to the receiver and
17 feedback means so that said relative voltage change in the distributed reference
18 voltage is approximately the same at each of the receiver and feedback means; and

19 the feedback means comprises a low-pass filter that does not significantly
20 affect the input characteristics of ~~the~~ an op-amp thereof.

21
22 **52.** (original): An integrated circuit as recited in claim 43, wherein the
23 integrated circuit is a memory device that further comprises a plurality of memory
24 storage cells.

1 53. (currently amended): A memory device comprising:
2 a plurality of memory storage cells that are capable of storing data;
3 a plurality of data receivers that evaluate binary data signals with reference
4 to a distributed reference voltage and that are coupled to the plurality of memory
5 storage cells;
6 a feedback receiver that evaluates the distributed reference voltage relative
7 to a nominal reference voltage to produce a feedback signal;
8 a reference voltage driver that produces a compensated reference voltage;
9 wherein the compensated reference voltage is routed on the memory device
10 to form the distributed reference voltage at the data and feedback receivers, and
11 the input characteristics of the data and feedback receivers cause a voltage change
12 in the distributed reference voltage at each receiver relative to the compensated
13 reference voltage;
14 wherein the data and feedback receivers have substantially similar input
15 characteristics so that said relative voltage change in the distributed reference
16 voltage is approximately the same at each of the data and feedback receivers; and
17 wherein the reference voltage driver has a variable gain that is configurable
18 to increase in response to the feedback signal when the distributed reference
19 voltage is less than the nominal reference voltage and to decrease in response to
20 the feedback signal when the distributed reference voltage is greater than the
21 nominal reference voltage.

1 54. (currently amended): A memory device comprising:
2 a plurality of memory storage cells that are capable of storing data;
3 a plurality of data receivers that evaluate binary data signals with reference
4 to a distributed reference voltage and that are coupled to the plurality of memory
5 storage cells;
6 a feedback receiver that evaluates the distributed reference voltage relative
7 to a nominal reference voltage to produce a feedback signal;
8 a reference voltage driver that produces a compensated reference voltage;
9 wherein the compensated reference voltage is routed on the memory device
10 to form the distributed reference voltage at the data and feedback receivers, and
11 the input characteristics of the data and feedback receivers cause a voltage change
12 in the distributed reference voltage at each receiver relative to the compensated
13 reference voltage;
14 wherein the data and feedback receivers have similar input characteristics
15 so that said relative voltage change in the distributed reference voltage is
16 approximately the same at each of the data and feedback receivers; and
17 wherein the reference voltage driver has a variable gain that is configurable
18 to increase in response to the feedback signal when the distributed reference
19 voltage is less than the nominal reference voltage and to decrease in response to
20 the feedback signal when the distributed reference voltage is greater than the
21 nominal reference voltage;
22 ~~A memory device as recited in claim 53,~~ wherein the compensated
23 reference voltage is distributed over impedance-matched conductors to form the
24 distributed reference voltage at the data and feedback receivers.
25

1 **55.** (original): A memory device as recited in claim 53, wherein the
2 variable gain of the reference voltage driver is controlled by a digital value, the
3 integrated circuit further comprising a register that is configurable to store the
4 digital value and to provide the digital value to the reference voltage driver.

5
6 **56.** (previously presented): A memory device as recited in claim 53,
7 wherein the variable gain of the reference voltage driver is controlled by a digital
8 value, and the integrated circuit further comprises a register that is configurable to
9 store the digital value and to provide the digital value to the reference voltage
10 driver; and wherein the register is readable and writable.

11
12 **57.** (original): A memory device as recited in claim 53, wherein the gain
13 of the reference voltage driver remains constant during an operational period that
14 follows an initialization period.

15
16 **58.** (original): A memory device as recited in claim 53, wherein the
17 feedback receiver comprises a low-pass filter that does not significantly affect the
18 input characteristics of the feedback receiver.
19
20
21
22
23
24
25

1 **59.** (original): A memory device as recited in claim 53, wherein:

2 the distributed reference voltage is routed similarly to the data and feedback
3 receivers so that said relative voltage change in the distributed reference voltage is
4 approximately the same at each of the data and feedback receivers; and

5 the feedback receiver comprises a low-pass filter that does not significantly
6 affect the input characteristics of the feedback receiver.

7
8 **60.** (currently amended): A method comprising:

9 ~~evaluating a plurality of signals relative to a distributed voltage;~~

10 amplifying a nominal voltage by a variable gain to produce a compensated
11 reference voltage;

12 routing the compensated reference voltage over approximately impedance-
13 matched resistive conductors to form ~~the~~ a distributed voltage;

14 evaluating a plurality of signals relative to the distributed voltage;

15 evaluating the nominal voltage relative to the distributed voltage;

16 increasing the variable gain when the distributed voltage is less than the
17 nominal voltage; and

18 decreasing the variable gain when the distributed voltage is greater than the
19 nominal voltage.

20
21 **61.** (currently amended): A method as recited in claim 60, wherein the

22 ~~routing~~ amplifying comprises amplifying the nominal voltage by a variable gain
23 that is established by a digital value ~~routing the compensated reference voltage~~
24 ~~over impedance-matched resistive conductors to form the distributed voltage.~~

1 **62.** (original): A method as recited in claim 60, further comprising:
2 maintaining the variable gain at a constant value during an operational
3 period following an initialization period.

4
5 **63.** (currently amended): An integrated circuit, comprising:
6 a reference voltage driver that has a variable gain and produces a
7 compensated reference voltage; and

8 a plurality of receivers having substantially similar input characteristics that
9 evaluate signals relative to a distributed reference voltage, a particular receiver of
10 the plurality of receivers capable of evaluating a nominal reference voltage signal
11 relative to the distributed reference voltage to produce a feedback signal;

12 wherein the compensated reference voltage is distributed to form the
13 distributed reference voltage, and the distributed reference voltage is degraded
14 relative to the compensated reference voltage; and

15 wherein the reference voltage driver is responsive to the feedback signal
16 such that the variable gain increases when the distributed reference voltage is less
17 than the nominal reference voltage signal and decreases when the distributed
18 reference voltage is greater than the nominal reference voltage signal.

19
20 **64.** (previously presented): An integrated circuit as recited in claim 63,
21 wherein the particular receiver is useable during an initialization period to evaluate
22 the nominal reference voltage signal relative to the distributed reference voltage to
23 produce the feedback signal and is unused during an operational period.

1 65. (previously presented): An integrated circuit as recited in claim 63,
2 wherein the particular receiver is useable during an initialization period to evaluate
3 the nominal reference voltage signal relative to the distributed reference voltage to
4 produce the feedback signal and is useable during an operational period to
5 evaluate a data signal relative to the distributed reference voltage.

6
7 66. (previously presented): An integrated circuit as recited in claim 63,
8 wherein the compensated reference voltage is distributed over impedance-matched
9 conductors to form the distributed reference voltage at the plurality of receivers.

10
11 67. (currently amended): An integrated circuit as recited in claim 63,
12 wherein the ~~plurality of receivers have~~ substantially similar input characteristics
13 ~~that~~ cause a voltage change in the distributed reference voltage at each receiver
14 relative to the compensated reference voltage; ~~and wherein the input~~
15 ~~characteristics are similar such that the relative voltage change in the distributed~~
16 ~~reference voltage~~ is approximately the same at each receiver of the plurality of
17 receivers.

18
19 68. (previously presented): An integrated circuit as recited in claim 63,
20 wherein the particular receiver includes a low-pass filter that does not significantly
21 affect input characteristics of the particular receiver.

22
23 69. (previously presented): An integrated circuit as recited in claim 63,
24 further comprising memory storage cells.
25

1 **70.** (previously presented): An integrated circuit as recited in claim 63,
2 wherein the variable gain of the reference voltage driver is controlled by a digital
3 value.

4
5 **71.** (previously presented): An integrated circuit as recited in claim 63,
6 further comprising a register that is configurable to store a digital value; wherein
7 the variable gain of the reference voltage driver is controllable by the digital value
8 of the register.

9
10 **72.** (previously presented): An integrated circuit as recited in claim 63,
11 wherein the reference voltage driver includes a counter that can change the
12 variable gain of the reference voltage driver responsive to the feedback signal.

13
14 **73.** (previously presented): An integrated circuit as recited in claim 63,
15 further comprising a charge pump that produces a control voltage to establish the
16 variable gain of the reference voltage driver; wherein the charge pump is
17 responsive to the feedback signal to cause the variable gain to increase or
18 decrease.